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SOLAR SUMMARY FOR 1955

The solar circulars which give the daily results of sunspot measures made at the U. S. Naval Observatory have been printed with the aid of punched cards since January 1950. These cards have also been used to compile the Summary for 1955.

Table I gives the mean values of A, g, s, and r for each month, and for the year.

Table II gives the same quantities for each day.

Table IIIa summarizes for each day the results for each group which was numbered at Mount Wilson. The first line contains the group number. The other lines list, for the entire group, in the successive columns:

1. Date of observation: the month, day, and decimal of a day in U. T.
2. The mean heliographic longitude, L.
3. The mean heliographic latitude, φ.
4. The total area, A.
5. The total spot count, s.
6. The number of parts, p, which were listed separately in the monthly circulars.

The quantities L and φ are the unweighted means of the several parts. Hence, the appearance or disappearance of a small spot may affect the day-to-day values of L and φ. Similarly, there may be apparent changes in these quantities when the group is near the limb and the measures are uncertain.

Table IIIb gives similar data for the unnumbered groups, that is, those marked by an asterisk in the monthly circulars. These groups generally consisted of a small spot which appeared on one day.

Table IV lists groups which may be recurrent. The data are derived from the Mount Wilson results given in the *Publications of the Astronomical Society of the Pacific*, which should be consulted for details on the recurrences.

TABLE I MONTHLY SUMMARY

	A	*g*	*s*	*r*
JANUARY	670	1.9	10	29
FEBRUARY	339	1.9	6	25
MARCH	39	0.4	1	5
APRIL	102	0.9	4	13
MAY	356	1.9	13	32
JUNE	568	1.9	18	37
JULY	272	2.5	11	36
AUGUST	632	2.8	18	46
SEPTEMBER	508	3.9	14	53
OCTOBER	1138	5.1	25	76
NOVEMBER	2101	6.2	30	92
DECEMBER	1255	5.6	31	87
Mean	665	2.9	15	44

TABLE II DAILY SUMMARY

Date	*A*	*g*	*s*	*r*
JANUARY				
1	508	1	8	18
2	376	1	5	15
3	315	1	5	15
4	443	2	16	36
5	572	2	19	39
6	912	2	29	49
7	2433	4	32	72
8	1935	4	30	70
9	1253	3	38	68
10	1333	2	6	26
11	1285	2	12	32
12	1272	2	14	34
13	1018	2	7	27
14	1066	2	5	25
15	1091	1	6	16
16	569	1	5	15
17	509	1	2	12
18	339	1	1	11
19	0	0	0	0
20	6	1	1	11
21	48	1	1	11
22	36	1	1	11
23	142	2	38	58
24	289	2	5	25
25	282	2	8	28
26	574	3	8	38
27	379	3	4	34
28	327	2	3	23
29	351	2	3	23
30	470	3	8	38
31	630	2	2	22
FEBRUARY				
1	388	2	2	22
2	419	3	6	36
3	558	3	5	35
4	534	3	4	34
5	618	3	5	35
6	460	3	3	33
7	703	3	8	38
8	393	2	12	32
9	471	2	12	32
10	512	2	10	30
11	247	3	32	62
12	460	2	4	24
13	138	3	12	42
14	85	1	4	14
15	48	1	1	11
16	48	1	1	11
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	0	0	0	0
21	339	1	2	12
22	412	2	4	24
23	557	2	6	26
24	455	2	21	41
25	424	2	6	26
26	412	2	5	25
27	451	2	10	30
28	355	2	7	27

Date	*A*	*g*	*s*	*r*
MARCH				
1	241	2	8	28
2	181	2	5	25
3	193	2	3	23
4	121	1	1	11
5	109	1	1	11
6	109	1	1	11
7	0	0	0	0
8	36	1	2	12
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	0	0	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
24	0	0	0	0
25	0	0	0	0
26	0	0	0	0
27	0	0	0	0
28	0	0	0	0
29	0	0	0	0
30	76	1	4	14
31	133	1	4	14
APRIL				
1	100	1	4	14
2	24	1	2	12
3	40	1	2	12
4	72	2	2	22
5	136	1	6	16
6	290	2	46	66
7	392	2	12	32
8	258	3	10	40
9	134	1	6	16
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	72	1	2	12
16	28	1	3	13
17	12	1	3	13
18	0	0	0	0
19	0	0	0	0
20	12	1	4	14
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
24	12	1	5	15
25	0	0	0	0
27	291	1	2	12
28	364	2	3	23
29	388	2	6	26
30	339	2	8	28

TABLE II DAILY SUMMARY

Date	*A*	*g*	*s*	*r*
MAY				
2	246	2	8	28
3	314	3	6	36
4	580	4	9	49
5	302	2	16	36
6	282	2	17	37
7	164	1	10	20
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	24	1	2	12
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	102	2	5	25
17	218	1	3	13
18	387	3	10	40
19	290	3	11	41
20	591	3	24	54
21	944	3	33	63
22	867	3	66	96
23	929	2	32	52
24	704	2	29	49
25	603	3	23	53
26	770	3	18	48
27	563	3	13	43
28	748	3	21	51
29	500	3	22	52
30	402	3	14	44
31	161	1	7	17
JUNE				
1	70	1	3	13
2	149	2	7	27
3	54	2	2	22
4	192	3	9	39
5	237	2	9	29
6	350	2	16	36
7	140	2	23	43
8	137	2	22	42
9	190	3	46	76
10	556	3	11	41
11	849	5	37	87
12	798	3	13	43
13	910	3	17	47
14	866	1	23	33
15	928	1	36	46
16	1420	2	34	54
17	1463	3	44	74
18	1258	2	31	51
19	998	2	69	89
20	1415	2	40	60
21	1178	2	24	44
22	911	2	15	35
23	145	1	1	11
24	0	0	0	0
25	0	0	0	0
26	0	0	0	0
27	0	0	0	0
28	727	1	2	12
29	484	1	5	15
30	605	3	7	37

Date	*A*	*g*	*s*	*r*
JULY				
1	690	3	13	43
2	612	3	17	47
3	613	3	11	41
4	708	4	22	62
5	622	4	14	54
6	644	4	24	64
7	612	5	34	84
8	430	3	25	55
9	254	5	20	70
10	300	4	19	59
11	172	4	17	57
12	212	4	13	53
13	209	4	10	50
14	144	4	7	47
15	64	2	4	24
16	44	1	2	12
17	16	1	2	12
18	0	0	0	0
19	341	4	8	48
20	334	5	11	61
21	133	1	5	15
22	218	2	2	22
23	0	0	0	0
24	0	0	0	0
25	24	1	1	11
26	170	1	2	12
27	104	1	4	14
28	100	1	9	19
29	189	1	27	37
30	232	1	12	22
31	244	2	9	29
AUGUST				
1	256	2	15	35
2	100	2	10	30
3	32	1	3	13
4	0	0	0	0
5	528	2	8	28
6	932	3	17	47
7	1166	3	18	48
8	1219	2	46	66
9	1520	4	78	118
10	1761	4	29	69
11	1734	4	50	90
12	1302	5	86	136
13	1272	5	31	81
14	1117	4	17	57
15	934	3	7	37
16	718	3	4	34
17	24	1	2	12
18	44	1	14	24
19	141	1	9	19
20	180	1	7	17
21	279	1	8	18
22	213	2	8	28
23	258	2	4	24
24	32	2	2	22
25	162	1	5	15
26	427	3	11	41
27	653	4	26	66
28	569	4	19	59
29	355	4	6	46
30	605	5	14	64
31	1056	7	22	92

TABLE II DAILY SUMMARY

Date	*A*	*g*	*s*	*r*
SEPTEMBER				
1	940	8	14	94
2	994	8	20	100
3	1117	8	27	107
4	1284	9	26	116
5	1121	7	15	85
6	1242	6	27	87
7	1218	7	20	90
8	1057	7	16	86
9	564	6	42	102
10	730	7	17	87
11	458	4	5	45
12	509	3	9	39
13	731	2	10	30
14	392	1	17	27
15	435	4	17	57
16	282	2	8	28
17	193	4	15	55
18	121	2	2	22
19	110	4	20	60
20	125	2	3	23
21	0	0	0	0
22	0	0	0	0
23	242	1	4	14
24	273	3	22	52
25	73	1	1	11
26	97	1	2	12
27	168	2	8	28
28	100	2	9	29
29	112	3	7	37
30	554	4	23	63
OCTOBER				
1	738	3	10	40
2	980	5	13	63
3	838	6	15	75
4	987	6	18	78
5	929	7	25	95
6	772	6	20	80
7	1160	7	25	95
8	887	9	54	144
9	1039	7	18	88
10	823	5	19	69
11	1057	6	11	71
12	920	5	7	57
13	726	3	4	34
14	90	4	16	56
15	32	1	2	12
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	158	1	2	12
20	447	3	11	41
21	520	3	18	48
22	838	4	31	71
23	1569	5	29	79
24	2017	7	61	131
25	2353	7	88	158
26	3141	6	39	99
27	2451	6	53	113
28	2824	9	33	123
29	2364	8	72	152
30	2143	9	49	139
31	2475	9	33	123
NOVEMBER				
1	3454	8	21	101
2	2794	8	24	104
3	2131	7	9	79
4	1672	5	7	57
5	763	4	6	46
6	629	4	5	45
7	1097	6	29	89
8	2338	7	21	91
9	3031	8	28	108
10	2914	9	50	140
11	2866	9	46	136
12	3199	7	52	122
13	3175	5	49	99
14	2772	5	66	116
15	2622	5	46	96
16	2039	4	27	67
17	1904	4	31	71
18	1295	4	32	72
19	1513	6	35	95
20	2169	5	10	60
21	1720	6	11	71
22	1418	4	6	46
23	1534	6	12	72
24	1489	6	13	73
25	1409	6	100	160
26	1401	7	65	135
27	1913	7	26	96
28	2743	9	23	113
29	2364	8	19	99
30	2642	8	23	103
DECEMBER				
1	2314	8	25	105
2	1744	7	54	124
3	1315	4	84	124
7	1133	7	82	152
8	1469	5	22	72
9	924	8	57	137
10	570	4	8	48
11	1114	3	15	45
12	1502	3	18	48
13	1593	6	22	82
14	1295	4	19	59
15	1429	4	21	61
16	1294	3	17	47
17	1353	4	9	49
18	1080	6	74	134
19	1517	5	13	63
20	1676	10	28	128
21	1842	7	29	99
22	860	8	35	115
26	734	5	12	62
27	839	5	12	62
28	932	6	11	71
30	738	9	73	163
31	846	3	13	43

TABLE IIIa NUMBERED GROUP SUMMARY

No.	Date	L	φ	A	s	p
		°	°			
11215	1 4.603	123	+21	242	11	4
	1 5.606	122	+20	500	16	8
	1 6.612	124	+20	839	28	9
	1 7.633	124	+20	932	23	9
	1 8.601	123	+21	714	15	6
	1 9.716	123	+19	450	18	6
	1 10.734	131	+21	436	1	1
	1 11.808	131	+21	388	3	1
	1 12.711	130	+21	339	1	1
	1 13.620	130	+21	267	1	1
	1 14.617	130	+21	145	1	1
11216	1 5.606	161	−27	72	3	2
	1 6.612	162	−26	73	1	1
	1 7.633	162	−26	48	1	1
	1 8.601	163	−26	24	1	1
11217	1 7.633	142	−35	96	6	2
	1 8.601	143	−34	132	3	3
	1 9.716	143	−35	18	2	2
11218	1 7.633	61	+37	1357	2	1
	1 8.601	67	+36	1065	11	5
	1 9.716	67	+35	785	18	7
	1 10.734	66	+37	897	5	4
	1 11.808	64	+37	897	9	4
	1 12.711	63	+36	933	13	8
	1 13.620	63	+36	751	6	4
	1 14.617	62	+36	921	4	3
	1 15.737	61	+36	1091	6	3
	1 16.994	57	+36	569	5	4
	1 17.611	59	+36	509	2	2
	1 18.618	56	+36	339	1	1
11219	1 20.623	259	−24	6	1	1
	1 21.680	255	−24	48	1	1
	1 22.829	253	−23	36	1	1
	1 23.771	254	−24	16	1	1
	1 24.630	253	−23	48	1	1
	1 25.794	251	−24	24	1	1
	1 26.617	252	−25	48	1	1
11220	1 23.771	269	+31	126	37	10
	1 24.630	268	+31	241	4	4
	1 25.794	271	+30	258	7	5
	1 26.617	267	+30	187	6	5
	1 27.683	274	+30	97	1	1
	1 28.577	272	+30	73	1	1
11221	1 26.617	170	−23	339	1	1
	1 27.683	166	−24	266	2	2
	1 28.577	168	−23	254	2	2
	1 29.594	170	−23	242	1	1
	1 30.671	170	−22	297	4	3
	1 31.601	170	−23	388	1	1
	2 1.681	169	−23	315	1	1
	2 2.790	168	−24	291	1	1
	2 3.602	170	−23	315	1	1
	2 4.597	171	−23	291	1	1
	2 5.581	170	−23	291	1	1
	2 6.733	170	−24	339	1	1
	2 7.629	168	−23	339	1	1
11222	1 27.683	232	+33	16	1	1
11223	1 29.594	258	−22	109	2	2
	1 30.671	259	−23	28	3	2
11224	1 30.671	124	+22	145	1	1
	1 31.601	124	+20	242	1	1
	2 1.681	123	+21	73	1	1
	2 2.790	125	+21	48	1	1
	2 3.602	124	+21	97	2	1
	2 4.597	123	+21	73	1	1
	2 5.581	122	+21	36	2	2
11225	2 2.790	186	+19	80	4	4
	2 3.602	190	+20	146	2	2
	2 4.597	189	+21	170	2	2
	2 5.581	187	+20	291	2	2
11226	2 6.733	34	+38	97	1	1
	2 7.629	34	+41	255	5	4
	2 8.695	32	+40	175	8	5
	2 9.622	29	+37	350	10	5
	2 10.597	30	+37	367	9	6
	2 11.755	30	+37	193	29	7
	2 12.751	28	+39	291	2	2
	2 13.664	27	+39	60	6	2
	2 14.591	25	+40	85	4	2
	2 15.631	29	+39	48	1	1
	2 16.762	31	+38	48	1	1
11227	2 6.733	94	+27	24	1	1
	2 7.629	94	+28	109	2	2
	2 8.695	96	+27	218	4	3
	2 9.622	99	+28	121	2	2
	2 10.597	101	+28	145	1	1
	2 11.755	100	+26	48	2	1
11228	2 11.755	85	+36	6	1	1
	2 13.664	91	+36	48	1	1
11229	2 12.751	7	+37	169	2	2
	2 13.664	7	+37	30	5	3
11230	2 21.686	189	+19	339	2	2
	2 22.674	190	+21	267	3	2
	2 23.726	190	+20	363	5	4
	2 24.703	191	+21	285	20	7
	2 25.608	191	+21	230	5	4
	2 26.684	189	+19	267	4	4
	2 27.799	191	+20	306	8	6
	2 28.592	192	+21	185	6	4
	3 1.713	191	+19	120	7	5

TABLE IIIa NUMBERED GROUP SUMMARY

No.	Date	L	φ	A	s	p
		°	°			
	3 2.587	195	+18	48	1	1
	3 3.589	196	+20	48	2	2
11231	2 22.674	165	−22	145	1	1
	2 23.726	166	−22	194	1	1
	2 24.703	167	−22	170	1	1
	2 25.608	166	−23	194	1	1
	2 26.684	166	−23	145	1	1
	2 27.799	166	−23	145	2	1
	2 28.592	166	−23	170	1	1
	3 1.713	164	−23	121	1	1
	3 2.587	165	−23	133	4	1
	3 3.589	165	−22	145	1	1
	3 4.612	164	−21	121	1	1
	3 5.678	163	−22	109	1	1
	3 6.695	164	−22	109	1	1
11232	3 8.600	112	+38	36	2	2
11234	3 30.590	75	−26	76	4	3
	3 31.590	76	−26	133	4	3
	4 1.608	76	−26	100	4	4
	4 2.648	79	−26	24	2	2
11235	4 3.658	91	+28	40	2	2
11236	4 4.606	82	+26	48	1	1
	4 5.597	85	+25	136	6	6
	4 6.612	84	+24	178	39	7
	4 7.610	84	+25	146	3	2
	4 8.590	78	+26	12	1	1
11237	4 4.606	108	+33	24	1	1
11238	4 6.612	51	+21	112	7	5
	4 7.610	52	+21	246	9	4
	4 8.590	53	+21	173	8	4
	4 9.592	54	+21	134	6	6
11239	4 8.590	54	−20	73	1	1
11240	4 15.602	279	−23	72	2	2
	4 16.633	278	−21	28	3	3
	4 17.661	282	−22	12	3	1
11241	4 20.586	202	−26	12	4	1
	4 24.581	193	−27	12	5	1
11242	4 27.644	56	+36	291	2	2
	4 28.583	57	+36	291	2	2
	4 29.642	58	+35	267	5	3
	4 30.574	56	+35	254	6	4
	5 2.568	54	+35	149	5	3
	5 3.567	58	+34	85	2	1
	5 4.635	59	+34	97	1	1
	5 5.552	58	+35	36	1	1
	5 6.563	56	+34	40	4	2
11243	4 28.583	44	+18	73	1	1
	4 29.642	44	+18	121	1	1
	4 30.574	43	+18	85	2	1
	5 2.568	45	+18	97	3	2
	5 3.567	44	+18	60	2	2
	5 4.635	46	+18	72	2	2
11244	5 3.567	331	−34	169	2	2
	5 4.635	327	−34	363	4	4
	5 5.552	328	−35	266	15	6
	5 6.563	329	−35	242	13	5
	5 7.682	330	−32	164	10	4
	5 11.637	332	−33	24	2	1
11245	5 4.635	74	−33	48	2	1
11246	5 16.578	170	+24	96	4	3
	5 17.565	168	+25	218	3	2
	5 18.562	170	+25	206	6	3
	5 19.601	171	+25	170	7	4
	5 20.585	171	+25	381	18	10
	5 21.575	172	+25	707	28	9
	5 22.567	169	+25	616	49	12
	5 23.554	170	+26	682	20	10
	5 24.553	168	+26	495	18	7
	5 25.513	169	+27	354	9	6
	5 26.513	177	+26	351	4	3
	5 27.547	171	+26	48	1	1
11248	5 16.578	180	+22	6	1	1
11249	5 18.562	217	+22	36	3	2
	5 19.601	219	+22	48	2	2
	5 20.585	218	+22	40	3	2
11250	5 18.562	131	+23	145	1	1
	5 19.601	131	+25	72	2	2
	5 20.585	129	+25	170	3	2
	5 21.575	126	+25	213	4	4
	5 22.567	125	+26	239	16	7
	5 23.554	124	+26	247	12	7
	5 24.553	126	+25	209	11	7
	5 25.513	123	+26	225	12	7
	5 26.513	123	+26	237	8	6
	5 27.547	123	+25	133	4	3
	5 28.768	124	+24	88	5	3
	5 29.636	119	+26	24	2	1
	5 30.583	125	+27	24	1	1
11251	5 21.575	105	−27	24	1	1
	5 22.567	104	−26	12	1	1

TABLE IIIa NUMBERED GROUP SUMMARY

No.	Date	L	φ	A	s	p
		°	°			
11253	5 25.513	72	+29	24	2	1
	5 26.513	69	+29	182	6	3
	5 27.547	67	+31	382	8	6
	5 28.768	69	+31	596	12	6
	5 29.636	67	+31	436	16	7
	5 30.583	66	+30	360	10	6
	5 31.664	65	+31	161	7	5
	6 1.644	69	+32	70	3	3
	6 2.514	67	+33	101	4	3
	6 3.548	68	+33	48	1	1
	6 4.570	69	+34	48	1	1
11254	5 28.768	51	+27	64	4	2
	5 29.636	51	+26	40	4	2
	5 30.583	49	+25	18	3	2
	6 2.514	48	+27	48	3	2
11256	6 3.548	293	+30	6	1	1
	6 4.570	293	+29	84	5	3
	6 5.630	293	+30	170	7	3
	6 6.533	292	+30	254	10	6
	6 7.578	297	+32	88	13	5
	6 8.572	295	+32	85	7	3
	6 9.587	295	+32	92	17	4
	6 10.512	296	+31	64	3	2
	6 11.592	289	+33	24	5	2
11257	6 4.570	282	+30	60	3	2
	6 5.630	283	+31	67	2	2
	6 6.533	282	+32	96	6	3
	6 7.578	290	+34	52	10	5
	6 8.572	288	+34	52	15	6
	6 9.587	289	+33	74	28	7
	6 10.512	288	+34	80	6	4
	6 11.592	285	+34	16	3	1
	6 13.534	277	+34	16	1	1
11258	6 9.587	200	+46	24	1	1
11259	6 10.512	185	−26	412	2	2
	6 11.592	179	−21	560	13	8
	6 12.633	182	−24	654	6	4
	6 13.534	180	−24	848	12	6
	6 14.574	180	−26	866	23	13
	6 15.519	180	−23	928	36	13
	6 16.517	178	−23	1275	33	13
	6 17.537	178	−23	1362	40	16
	6 18.573	178	−23	1197	29	12
	6 19.589	178	−24	970	67	20
	6 20.538	178	−23	1391	39	16
	6 21.549	179	−23	1138	21	11
	6 22.515	178	−21	899	14	9
	6 23.510	170	−26	145	1	1
11260	6 11.592	238	−25	56	4	2
	6 12.633	239	−26	16	1	1
11261	6 11.592	173	+24	193	12	4
	6 12.633	174	+23	128	6	3
	6 13.534	175	+22	46	4	4
11262	6 16.517	110	+17	145	1	1
	6 17.537	112	+17	73	2	1
	6 18.573	112	+18	61	2	1
	6 19.589	113	+22	28	2	2
	6 20.538	112	+19	24	1	1
	6 21.549	114	+22	40	3	2
	6 22.515	112	+20	12	1	1
11264	6 17.537	238	−26	28	2	2
11266	6 28.513	307	−36	727	2	2
	6 29.519	302	−36	484	5	3
	6 30.511	306	−35	363	4	4
	7 1.544	303	−34	339	7	3
	7 2.512	305	−34	278	8	6
	7 3.602	303	−34	307	3	3
	7 4.533	302	−34	338	11	5
	7 5.522	303	−35	279	5	2
	7 6.547	299	−34	230	7	4
	7 7.524	301	−33	170	5	3
	7 8.617	300	−33	60	4	3
	7 9.776	299	−35	24	1	1
11267	6 30.511	282	+30	194	1	1
	7 1.544	278	+32	303	4	3
	7 2.512	279	+31	286	7	5
	7 3.602	279	+30	282	7	4
	7 4.533	277	+29	330	9	5
	7 5.522	279	+30	319	7	5
	7 6.547	278	+30	334	14	8
	7 7.524	277	+32	306	21	9
	7 8.617	280	+32	286	13	8
	7 9.776	281	+31	110	7	5
	7 10.655	278	+33	60	3	2
	7 11.569	275	+35	16	1	1
11268	6 30.511	279	+15	48	2	1
	7 1.544	278	+15	48	2	2
	7 2.512	277	+15	48	2	2
	7 3.602	280	+16	24	1	1
	7 4.533	279	+15	16	1	1
	7 5.522	280	+15	12	1	1
11269	7 4.533	227	+24	24	1	1
	7 5.522	232	+24	12	1	1
	7 6.547	227	+24	64	2	2
	7 7.524	219	+25	72	3	2
	7 8.617	224	+25	84	8	6
	7 9.776	223	+26	52	7	3
	7 10.655	224	+25	204	14	7
	7 11.569	226	+25	104	10	7
	7 12.579	224	+24	112	7	4
11270	7 6.547	295	+28	16	1	1
	7 7.524	295	+29	40	3	3

TABLE IIIa NUMBERED GROUP SUMMARY

No.	Date	L	φ	A	s	p
		°	°			
11271	7 7.524	209	+23	24	2	1
	7 9.776	213	+26	16	1	1
	7 11.569	209	+25	24	2	1
	7 12.579	204	+25	12	1	1
11272	7 9.776	199	+30	52	4	3
	7 10.655	196	+30	24	1	1
11273	7 10.655	177	−23	12	1	1
	7 12.579	176	−26	16	2	1
	7 13.545	182	−25	96	4	3
	7 14.549	178	−25	16	1	1
11274	7 11.569	176	+29	28	4	2
	7 12.579	176	+27	72	3	2
	7 13.545	178	+27	73	2	1
	7 14.549	179	+27	52	3	2
	7 15.555	178	+27	24	1	1
11275	7 13.545	154	+24	24	3	1
11276	7 13.545	131	+20	16	1	1
	7 14.549	132	+19	16	1	1
11277	7 14.549	134	−28	60	2	2
	7 15.555	135	−29	40	3	2
	7 16.537	136	−28	44	2	2
	7 17.637	133	−27	16	2	1
11278	7 19.691	171	−24	217	4	4
	7 20.522	175	−20	145	1	1
11279	7 19.691	177	−16	36	1	1
11280	7 19.691	164	+17	72	2	2
	7 20.522	169	+18	16	1	1
11281	7 19.691	147	+29	16	1	1
	7 20.522	144	+31	16	1	1
11282	7 20.522	139	−24	121	4	3
	7 21.547	139	−25	133	5	3
	7 22.518	146	−22	194	1	1
11283	7 20.522	129	+23	36	4	2
11284	7 22.518	29	−30	24	1	1
11285	7 25.533	100	−26	24	1	1
11286	7 26.535	291	+20	170	2	2
	7 27.526	294	+21	104	4	3
	7 28.565	292	+21	100	9	5
	7 29.568	295	+24	189	27	6
	7 30.786	296	+22	232	12	6
	7 31.715	295	+22	220	8	6
	8 1.541	294	+21	168	10	5
	8 2.567	293	+22	52	6	4
11288	7 31.715	304	−33	24	1	1
	8 1.541	308	−32	88	5	4
	8 2.567	305	−33	48	4	4
	8 3.527	303	−33	32	3	2
11289	8 6.704	199	+32	16	1	1
	8 7.808	201	+32	24	2	2
	8 9.613	197	+33	102	16	6
	8 10.606	197	+32	193	6	4
	8 11.536	198	+32	145	8	4
	8 12.668	196	+33	64	4	2
	8 13.894	192	+30	24	2	1
11290	8 5.614	173	+15	108	4	3
	8 6.704	171	+15	285	8	6
	8 7.808	174	+16	464	10	6
	8 8.665	173	+16	566	28	14
	8 9.613	173	+16	510	21	10
	8 10.606	176	+15	564	10	6
	8 11.536	174	+15	454	8	4
	8 12.668	173	+16	363	13	4
	8 13.894	179	+14	461	2	1
	8 14.748	180	+14	436	2	1
	8 15.574	178	+15	461	2	1
	8 16.547	182	+17	436	1	1
11291	8 5.614	173	−25	420	4	4
	8 6.704	173	−25	631	8	4
	8 7.808	171	−23	678	6	5
	8 8.665	173	−23	653	18	10
	8 9.613	172	−23	840	36	13
	8 10.606	173	−24	859	9	6
	8 11.536	172	−23	926	27	12
	8 12.668	170	−23	730	53	11
	8 13.894	168	−23	683	15	6
	8 14.748	170	−25	545	6	4
	8 15.574	174	−23	461	3	2
	8 16.547	173	−22	266	2	2
11292	8 9.613	125	+25	68	5	2
	8 10.606	124	+22	145	4	3
	8 11.536	124	+22	209	7	5
	8 12.668	126	+23	139	15	6
	8 13.894	126	+23	92	11	5
	8 14.748	128	+22	100	7	4
	8 15.574	131	+22	12	2	1
11293	8 12.668	129	−30	6	1	1
	8 13.894	129	−27	12	1	1
	8 14.748	129	−27	36	2	2

TABLE IIIa NUMBERED GROUP SUMMARY

No.	Date	L	φ	A	s	p
		°	°			
11294	8 16.547	82	+21	16	1	1
	8 17.535	83	+21	24	2	2
	8 18.595	81	+21	44	14	4
	8 19.547	83	+20	141	9	4
	8 20.553	84	+20	180	7	4
	8 21.630	84	+19	279	8	4
	8 22.551	84	+21	185	6	4
	8 23.549	87	+21	242	3	2
11295	8 22.551	6	−28	28	2	2
	8 23.549	2	−28	16	1	1
	8 24.552	3	−28	16	1	1
11296	8 24.552	312	+41	16	1	1
	8 25.547	312	+42	162	5	3
	8 26.551	313	+42	205	6	5
	8 27.552	308	+42	363	11	6
	8 28.609	307	+43	303	7	4
	8 29.608	309	+43	218	3	3
	8 30.552	307	+43	266	8	4
	8 31.712	304	+43	132	6	6
	9 2.733	300	+45	16	1	1
11297	8 26.551	293	+18	77	4	2
	8 27.552	292	+20	151	10	5
	8 28.609	293	+19	121	8	4
	8 30.552	293	+19	24	2	2
	8 31.712	295	+17	12	1	1
	9 1.664	296	+18	12	1	1
11298	8 26.551	242	−21	145	1	1
	8 27.552	244	−21	121	3	2
	8 28.609	243	−20	121	3	3
	8 29.608	251	−21	85	1	1
	8 30.552	252	−22	73	1	1
	8 31.712	252	−20	162	6	4
	9 1.664	251	−20	76	4	3
	9 2.733	254	−20	32	3	1
	9 3.681	253	−20	24	1	1
	9 4.591	253	−19	16	1	1
11299	8 27.552	268	+28	18	2	2
	8 28.609	269	+27	24	1	1
	8 29.608	270	+27	16	1	1
	8 30.552	270	+27	12	1	1
	9 1.664	261	+29	12	2	2
11300	8 29.608	212	+25	36	1	1
	8 30.552	210	+25	230	2	2
	8 31.712	211	+26	242	3	2
	9 1.664	210	+25	194	1	1
	9 2.733	211	+25	165	2	2
	9 3.681	210	+24	125	4	3
	9 4.591	210	+24	85	4	1
11301	8 31.712	193	+30	84	3	2
	9 1.664	194	+31	89	2	2
	9 2.733	193	+31	104	5	3
	9 3.681	193	+30	48	7	3
	9 4.591	192	+30	18	2	2
11302	8 31.712	177	+18	133	2	2
	9 1.664	179	+18	121	2	2
	9 2.733	178	+17	61	2	1
	9 3.681	178	+17	61	2	1
	9 4.591	178	+17	73	1	1
	9 5.606	177	+18	60	2	2
	9 6.550	177	+20	64	3	2
	9 7.551	176	+17	36	1	1
	9 8.554	178	+18	48	1	1
	9 9.608	178	+18	16	2	1
	9 10.590	176	+17	24	1	1
11303	8 31.712	172	+27	291	1	1
	9 1.664	172	+27	388	1	1
	9 2.733	172	+26	339	1	1
	9 3.681	171	+26	364	1	1
	9 4.591	170	+26	412	2	1
	9 5.606	169	+25	388	1	1
	9 6.550	169	+26	364	1	1
	9 7.551	169	+26	364	1	1
	9 8.554	168	+26	388	1	1
	9 9.608	167	+27	321	2	2
	9 10.590	165	+26	400	3	3
	9 11.562	165	+26	345	2	2
	9 12.562	167	+26	339	3	1
	9 13.566	169	+26	436	1	1
11304	9 1.664	174	−21	48	1	1
	9 2.733	174	−23	145	2	2
	9 3.681	174	−23	109	2	2
	9 4.591	174	−23	169	2	2
	9 5.606	175	−23	109	2	2
	9 6.550	176	−23	121	5	2
	9 7.551	176	−22	73	1	1
	9 8.554	177	−22	61	1	1
11305	9 2.733	169	+16	132	4	3
	9 3.681	168	+17	120	8	4
	9 4.591	168	+16	88	5	3
	9 5.606	171	+16	24	1	1
11306	9 3.681	138	+27	266	2	2
	9 4.591	138	+27	315	3	2
	9 5.606	139	+27	218	2	2
	9 6.550	137	+26	217	6	3
	9 7.551	136	+26	177	5	3
	9 8.554	140	+26	145	2	1
	9 9.608	137	+27	101	10	3
	9 10.590	136	+26	85	4	3
	9 11.562	139	+26	24	1	1
11307	9 4.591	233	−23	108	6	4
	9 5.606	235	−23	294	5	3
	9 6.550	235	−24	436	10	4
	9 7.551	236	−23	488	7	5
	9 8.554	235	−23	145	1	1

TABLE IIIa NUMBERED GROUP SUMMARY

No.	Date	L	φ	A	s	p
		°	°			
11308	9 5.606	129	−26	28	2	2
	9 6.550	124	−27	40	2	2
	9 7.551	127	−26	32	2	2
	9 8.554	126	−27	137	5	4
	9 9.608	124	−27	68	19	5
	9 10.590	124	−27	121	4	2
	9 11.562	120	−29	73	1	1
	9 12.562	120	−28	36	1	1
11309	9 7.551	135	−43	48	3	2
	9 8.554	133	−42	133	5	3
	9 9.608	134	−42	52	8	2
	9 10.590	129	−42	36	2	1
11310	9 9.608	195	+31	6	1	1
	9 10.590	191	+32	48	2	2
11311	9 10.590	71	−27	16	1	1
11312	9 11.562	68	+22	16	1	1
	9 12.562	68	+23	134	5	2
	9 13.566	68	+23	295	9	6
	9 14.557	68	+23	392	17	7
	9 15.558	66	+23	234	10	6
	9 16.559	68	+22	169	4	3
	9 17.603	71	+21	61	5	1
	9 18.731	73	+19	73	1	1
	9 19.609	71	+22	42	7	3
11314	9 15.558	108	+28	36	1	1
	9 17.603	110	+27	24	1	1
11315	9 15.558	71	−27	153	5	4
	9 16.559	71	−26	113	4	4
	9 17.603	73	−26	72	6	2
	9 19.609	72	−26	40	5	3
	9 20.577	72	−26	64	2	2
11316	9 15.558	56	+25	12	1	1
11317	9 17.603	68	+34	36	3	2
	9 20.577	72	+22	61	1	1
11319	9 18.731	44	−24	48	1	1
	9 19.609	44	−24	16	6	1
11320	9 19.609	51	−17	12	2	2
11322	9 23.608	236	−24	242	4	2
	9 24.653	235	−25	199	8	4
	9 25.633	237	−24	73	1	1
	9 26.584	238	−25	97	2	2
	9 27.567	236	−25	132	7	4
	9 28.573	238	−26	88	7	4
	9 29.569	234	−24	84	5	4
11323	9 24.653	9	+25	34	8	3
11324	9 24.653	308	−30	40	6	2
11325	9 29.569	222	+22	16	1	1
	9 30.597	223	+24	28	6	3
11326	9 27.567	320	+36	36	1	1
11327	9 28.573	267	+22	12	2	1
11328	9 29.569	226	−15	12	1	1
11329	9 30.597	157	−23	40	6	2
	10 1.631	158	−24	24	1	1
	10 2.630	158	−25	72	2	2
	10 3.577	158	−24	40	2	2
11330	9 30.597	160	+31	50	10	5
	10 1.631	160	+29	132	8	5
	10 2.630	163	+28	181	6	5
	10 3.577	164	+27	129	5	3
	10 4.576	162	+28	92	6	5
	10 5.581	162	+25	64	4	3
	10 6.602	166	+27	113	6	4
	10 7.594	170	+28	73	1	1
	10 8.616	169	+27	48	6	1
	10 9.606	170	+28	60	2	2
11331	9 30.597	138	+23	436	1	1
	10 1.631	137	+23	582	1	1
	10 2.630	139	+23	558	2	2
	10 3.577	137	+23	549	4	3
	10 4.576	136	+23	655	4	3
	10 5.581	136	+23	637	9	6
	10 6.602	137	+23	539	5	4
	10 7.594	138	+23	549	4	4
	10 8.616	138	+22	394	2	2
	10 9.606	138	+21	436	1	1
	10 10.592	138	+21	388	1	1
	10 11.790	138	+19	388	1	1
	10 12.571	140	+21	388	1	1
	10 13.568	140	+21	436	1	1
11332	10 3.577	130	+22	48	2	2
	10 4.576	128	+22	96	3	2
	10 5.581	130	+20	108	5	3
	10 6.602	128	+22	48	4	2
	10 7.594	127	+23	67	5	2
	10 8.616	128	+21	42	17	3

TABLE IIIa NUMBERED GROUP SUMMARY

No.	Date	L	φ	A	s	p
		°	°			
	10 9.606	128	+21	36	3	2
	10 10.592	129	+22	149	6	4
	10 11.790	130	+21	412	4	3
	10 12.571	131	+22	387	3	3
	10 13.568	131	+23	242	2	2
11333	10 2.630	171	+16	72	2	2
	10 3.577	174	+14	24	1	1
	10 4.576	172	+15	48	2	2
	10 5.581	171	+15	16	2	1
11334	10 2.630	114	+21	97	1	1
	10 3.577	118	+20	48	1	1
	10 4.576	116	+20	36	1	1
	10 5.581	116	+20	32	1	1
	10 6.602	118	+20	16	1	1
	10 7.594	119	+21	12	1	1
	10 8.616	117	+23	12	5	1
11335	10 4.576	103	+18	60	2	2
	10 5.581	102	+18	48	2	1
	10 6.602	102	+19	16	1	1
11336	10 5.581	110	+28	24	2	2
	10 6.602	110	+27	40	3	3
	10 7.594	110	+28	233	10	6
	10 8.616	112	+30	119	9	3
	10 9.606	110	+28	157	5	4
	10 10.592	110	+30	121	2	2
	10 11.790	111	+27	97	1	1
	10 12.571	111	+27	97	1	1
	10 13.568	111	+28	48	1	1
	10 14.612	111	+30	12	2	1
11337	10 7.594	186	+24	32	2	2
	10 8.616	184	+24	64	8	4
11339	10 7.594	58	−21	194	2	2
	10 8.616	56	−18	105	4	2
	10 9.606	58	−18	193	3	3
	10 10.592	56	−19	129	9	5
	10 11.790	53	−19	96	2	2
	10 14.612	54	−18	48	8	3
	10 15.628	57	−20	32	2	2
11340	10 8.616	44	−25	97	2	2
	10 9.606	51	−25	73	1	1
	10 10.592	50	−26	36	1	1
	10 11.790	46	−26	48	2	2
	10 12.571	49	−26	24	1	1
11341	10 9.606	154	−23	84	3	3
11342	10 8.616	71	+22	6	1	1
11346	10 11.790	111	−26	16	1	1
	10 12.571	113	−26	24	1	1
11347	10 14.612	7	+29	18	4	2
11349	10 19.614	260	+19	158	2	2
	10 20.612	259	+19	290	9	4
	10 21.616	260	+18	363	15	9
	10 22.745	260	+19	402	28	10
	10 23.800	260	+18	443	21	9
	10 24.713	261	+17	310	31	11
	10 25.612	256	+19	310	31	9
	10 26.610	257	+18	485	10	6
	10 27.560	254	+19	298	21	8
	10 28.628	255	+19	182	6	3
	10 29.623	255	+21	121	2	2
	10 30.691	253	+19	16	1	1
11350	10 20.612	333	+19	12	1	1
	10 21.616	331	+21	12	1	1
11351	10 20.612	240	+25	145	1	1
	10 21.616	239	+25	145	2	1
	10 22.745	239	+24	97	1	1
	10 23.800	239	+24	133	3	2
	10 24.713	239	+24	97	1	1
	10 25.612	238	+24	61	1	1
	10 26.610	233	+25	105	2	2
	10 27.560	238	+24	32	1	1
	10 28.628	239	+24	36	1	1
11352	10 22.745	212	+28	194	1	1
	10 23.800	211	+27	291	1	1
	10 24.713	210	+27	388	1	1
	10 25.612	208	+27	315	1	1
	10 26.610	210	+27	339	1	1
	10 27.560	208	+27	339	2	1
	10 28.628	210	+28	339	1	1
	10 29.623	208	+28	291	1	1
	10 30.691	208	+27	339	1	1
	10 31.571	206	+26	291	1	1
	11 1.607	208	+27	388	1	1
	11 2.552	208	+26	364	1	1
	11 3.551	206	+26	339	1	1
	11 4.551	208	+25	388	1	1
11353	10 22.745	214	−21	145	1	1
	10 23.800	207	−22	654	3	3
	10 24.713	207	−23	762	19	6
	10 25.612	207	−24	901	33	8
	10 26.610	208	−23	1260	13	8
	10 27.560	208	−23	900	15	7
	10 28.628	210	−23	944	7	5
	10 29.623	210	−21	771	20	6
	10 30.691	209	−23	326	11	6
	10 31.571	211	−24	727	4	2
	11 1.607	213	−24	872	3	2
	11 2.552	214	−24	703	3	2
	11 3.551	216	−22	485	1	1

TABLE IIIa NUMBERED GROUP SUMMARY

No.	Date	L	φ	A	s	p
		°	°			
11354	10 23.800	193	+26	48	1	1
	10 24.713	194	+27	121	5	3
	10 25.612	197	+29	197	11	5
	10 26.610	198	+28	286	8	6
	10 27.560	198	+29	285	8	6
	10 28.628	200	+30	189	5	4
	10 29.623	196	+31	221	25	6
	10 30.691	198	+29	255	9	4
	10 31.571	197	+28	375	13	7
	11 1.607	195	+28	752	6	5
	11 2.552	194	+28	662	8	6
	11 3.551	195	+28	436	2	2
	11 4.551	195	+28	436	2	2
11355	10 24.713	249	+ 9	48	3	2
	10 25.612	249	+10	12	1	1
11356	10 24.713	189	−25	291	1	1
	10 25.612	184	−25	557	10	4
	10 26.610	184	−26	666	5	4
	10 27.560	184	−26	597	6	5
	10 28.628	185	−26	642	7	4
	10 29.623	185	−24	561	9	6
	10 30.691	186	−25	597	12	5
	10 31.571	188	−25	488	6	6
	11 1.607	189	−24	642	4	4
	11 2.552	189	−25	483	7	5
	11 3.551	191	−24	387	2	2
	11 4.551	192	−23	436	2	2
	11 5.697	190	−24	194	1	1
11357	10 28.628	229	+27	32	3	1
	10 29.623	228	+27	52	3	3
	10 30.691	228	+27	109	6	3
	10 31.571	223	+26	73	1	1
11358	10 28.628	134	+22	388	1	1
	10 29.623	134	+23	218	1	1
	10 30.691	133	+22	315	1	1
	10 31.571	134	+22	242	1	1
	11 1.607	134	+22	388	1	1
	11 2.552	133	+21	291	1	1
	11 3.551	133	+21	291	1	1
	11 4.551	133	+21	218	1	1
	11 5.697	133	+22	218	1	1
	11 6.635	133	+22	218	1	1
	11 7.669	133	+22	170	1	1
	11 8.593	135	+22	145	1	1
	11 9.590	136	+22	145	1	1
11359	10 28.628	201	−22	72	2	2
	10 29.623	202	−21	129	11	3
	10 30.691	201	−22	150	7	3
	10 31.571	201	−23	150	4	3
	11 1.607	203	−23	146	3	2
	11 2.552	203	−23	48	2	2
	11 3.551	200	−24	48	1	1
11360	10 30.691	154	+18	36	1	1
	10 31.571	155	+17	32	1	1

No.	Date	L	φ	A	s	p
		°	°			
11361	10 31.571	225	+13	97	2	2
	11 1.607	228	+15	121	2	2
	11 2.552	227	+15	73	1	1
11362	11 1.607	89	−28	145	1	1
	11 2.552	90	−29	170	1	1
	11 3.551	88	−29	145	1	1
	11 4.551	87	−29	194	1	1
	11 5.697	89	−29	145	1	1
	11 6.635	88	−29	145	1	1
	11 7.669	88	−27	109	1	1
	11 8.593	88	−29	121	1	1
	11 9.590	88	−29	145	2	2
	11 10.584	89	−29	97	1	1
	11 11.576	89	−28	97	1	1
	11 12.569	87	−27	97	1	1
11363	11 5.697	54	−18	206	3	2
	11 6.635	53	−18	242	2	2
	11 7.669	53	−17	189	7	4
	11 8.593	57	−17	97	1	1
	11 9.590	57	−18	73	1	1
	11 10.584	57	−18	24	1	1
	11 11.576	57	−17	36	1	1
11364	11 6.635	26	+28	24	1	1
	11 7.669	26	+30	218	13	3
	11 8.593	26	+28	254	6	4
	11 9.590	25	+27	266	3	3
	11 10.584	25	+27	230	7	4
	11 11.576	24	+28	113	2	2
	11 12.569	24	+28	161	3	2
	11 13.612	28	+27	97	1	1
	11 14.689	26	+26	73	1	1
	11 15.585	29	+27	85	1	1
11365	11 7.669	9	−29	375	4	3
	11 8.593	7	−30	824	4	3
	11 9.590	5	−31	812	4	4
	11 10.584	2	−31	798	10	8
	11 11.576	2	−31	749	12	8
	11 12.569	3	−30	866	18	11
	11 13.612	359	−31	821	13	12
	11 14.689	356	−30	431	16	10
	11 15.585	355	−31	450	12	10
	11 16.740	359	−31	206	5	5
	11 17.557	8	−29	204	5	5
	11 18.555	5	−30	145	3	2
	11 19.692	3	−30	73	1	1
11366	11 7.669	61	−18	36	3	2
	11 8.593	62	−19	121	4	2
	11 9.590	62	−21	109	2	2
	11 10.584	66	−20	24	1	1
	11 11.576	66	−18	24	1	1
11367	11 8.593	348	+25	776	4	2
	11 9.590	347	+23	1429	12	7
	11 10.584	346	+24	1505	20	7
	11 11.576	346	+24	1730	25	12

TABLE IIIa NUMBERED GROUP SUMMARY

No.	Date	L	φ	A	s	p
		°	°			
	11 12.569	347	+24	1805	25	13
	11 13.612	346	+24	1708	26	19
	11 14.689	345	+23	1412	30	16
	11 15.585	346	+23	1145	20	11
	11 16.740	348	+24	1081	12	9
	11 17.557	345	+24	985	16	9
	11 18.555	345	+23	791	17	7
	11 19.692	342	+25	679	10	4
	11 20.651	343	+24	654	3	3
	11 21.565	334	+25	73	1	1
11368	11 10.584	94	+22	124	5	4
	11 11.576	94	+23	40	2	2
11369	11 9.590	2	−44	52	3	3
	11 10.584	2	−44	88	4	3
	11 11.576	6	−43	61	1	1
	11 12.569	3	−44	93	3	2
11370	11 10.584	48	+26	24	1	1
11371	11 11.576	331	+25	16	1	1
	11 12.569	331	+25	32	1	1
11372	11 14.689	18	+17	334	13	7
	11 15.585	19	+17	483	7	6
	11 16.740	21	+17	400	6	4
	11 17.557	18	+17	328	4	3
11373	11 12.569	297	+20	145	1	1
	11 13.612	296	+19	533	8	4
	11 14.689	294	+20	522	6	5
	11 15.585	295	+20	459	6	5
	11 16.740	298	+21	352	4	4
	11 17.557	298	+19	387	6	4
	11 18.555	294	+19	274	7	6
	11 19.692	291	+21	269	16	9
	11 20.651	294	+21	303	4	4
	11 21.565	295	+20	145	4	4
11374	11 18.555	330	+16	85	5	2
	11 19.692	330	+17	52	3	2
11375	11 19.692	240	−22	52	4	3
11376	11 19.692	203	−20	388	1	1
	11 20.651	205	−20	582	1	1
	11 21.565	203	−19	799	3	3
	11 22.554	204	−22	667	2	2
	11 23.681	207	−20	485	1	1
	11 24.633	201	−20	666	5	4
	11 25.736	201	−21	684	52	8
	11 26.716	201	−19	660	20	7
	11 27.634	202	−21	849	11	5
	11 28.583	202	−21	728	3	3
	11 29.590	203	−22	666	4	3
	11 30.596	206	−22	485	1	1
	12 1.594	205	−21	582	1	1
11377	11 20.651	197	+27	339	1	1
	11 21.565	199	+26	291	1	1
	11 22.554	197	+27	242	1	1
	11 23.681	197	+26	218	1	1
	11 24.633	196	+27	218	1	1
	11 25.736	198	+26	170	1	1
	11 26.716	195	+26	170	1	1
	11 27.634	195	+26	218	1	1
	11 28.583	195	+26	194	1	1
	11 29.590	195	+26	170	1	1
	11 30.596	195	+26	194	1	1
	12 1.594	193	+25	145	1	1
	12 2.715	194	+26	194	1	1
11378	11 20.651	195	+27	291	1	1
	11 21.565	195	+26	291	1	1
	11 22.554	189	+29	364	2	2
	11 23.681	190	+27	529	6	5
	11 24.633	189	+29	315	3	2
	11 25.736	191	+27	204	13	4
	11 26.716	190	+28	202	8	3
	11 27.634	192	+26	218	2	1
	11 28.583	192	+27	242	3	2
	11 29.590	191	+27	304	3	3
	11 30.596	190	+28	267	2	2
	12 1.594	190	+27	157	2	2
	12 2.715	191	+26	194	1	1
11379	11 21.565	179	−26	121	1	1
	11 22.554	178	−25	145	1	1
	11 23.681	183	−24	170	1	1
	11 24.633	179	−25	97	1	1
	11 25.736	178	−26	121	1	1
	11 26.716	178	−26	109	1	1
	11 27.634	177	−26	97	1	1
	11 28.583	177	−26	73	1	1
	11 29.590	177	−26	73	1	1
	11 30.596	177	−25	73	1	1
	12 1.594	176	−26	36	1	1
	12 2.715	176	−25	24	2	1
11380	11 23.681	171	+43	48	1	1
	11 24.633	168	+44	48	1	1
	11 25.736	167	+44	122	20	7
	11 26.716	165	+46	162	17	6
	11 27.634	167	+44	156	5	4
	11 28.583	165	+44	207	4	3
	11 29.590	168	+44	61	1	1
	11 30.596	166	+43	48	1	1
	12 1.594	166	+44	24	1	1
	12 2.715	166	+45	16	1	1
11381	11 23.681	177	+25	84	2	2
	11 24.633	178	+28	145	2	2
	11 25.736	178	+27	108	13	7
	11 26.716	177	+27	92	17	6
	11 27.634	179	+27	230	4	4
	11 28.583	178	+27	169	5	4

TABLE IIIa NUMBERED GROUP SUMMARY

No.	Date	L	φ	A	s	p
		°	°			
11385	11 26.716	128	+26	6	1	1
11386	11 27.634	104	+22	145	2	1
	11 28.583	99	+22	452	4	4
	11 29.590	105	+23	97	1	1
	11 30.596	104	+22	97	1	1
	12 1.594	103	+22	85	1	1
	12 2.715	106	+23	97	1	1
	12 3.704	104	+23	73	1	1
11387	11 28.583	90	−26	630	1	1
	11 29.590	88	−27	727	4	2
	11 30.596	87	−27	787	3	2
	12 1.594	87	−27	606	4	3
	12 2.715	86	−26	472	9	6
	12 3.704	86	−27	447	20	11
	12 7.733	91	−26	242	5	1
	12 8.624	92	−26	194	1	1
	12 9.906	93	−25	145	1	1
11388	11 28.583	90	+22	48	1	1
	11 29.590	91	+22	266	4	3
	11 30.596	90	+22	691	13	7
	12 1.594	90	+23	679	14	9
	12 2.715	93	+24	747	39	12
	12 3.704	93	+24	779	62	14
	12 7.733	87	+23	434	25	7
	12 8.624	88	+22	837	7	6
	12 9.906	88	+24	362	8	5
11390	12 3.704	27	−15	16	1	1
	12 7.733	25	−17	133	9	3
	12 8.624	25	−17	97	2	2
	12 9.906	27	−17	44	5	2
	12 10.683	30	−17	61	1	1
11391	12 7.733	52	−20	24	2	1
11392	12 7.733	21	+32	122	18	6
	12 8.624	21	+31	32	2	2
	12 9.906	20	+33	48	8	4
	12 10.683	21	+31	48	1	1
11393	12 7.733	11	+29	166	22	8
	12 8.624	12	+29	309	10	9
	12 9.906	13	+29	160	17	9
	12 10.683	11	+28	291	4	4
	12 11.639	9	+27	508	11	9
	12 12.612	9	+26	719	11	7
	12 13.612	6	+27	799	14	7
	12 14.606	9	+27	476	9	6
	12 15.609	12	+26	339	2	1
11394	12 7.733	348	+22	12	1	1
11395	12 9.906	42	−22	32	4	2
11396	12 9.906	42	−17	28	5	2
11397	12 9.906	2	−26	105	9	4
	12 10.683	2	−26	170	2	2
	12 11.639	2	−25	170	3	2
	12 12.612	2	−25	105	4	3
	12 13.612	6	−25	48	1	1
11398	12 11.639	281	+25	436	1	1
	12 12.612	268	+27	678	3	3
	12 13.612	274	+25	460	3	3
	12 14.606	273	+26	440	5	4
	12 15.609	271	+26	420	6	3
	12 16.618	271	+25	314	6	3
	12 17.805	280	+26	218	2	2
	12 18.674	272	+26	147	21	8
	12 19.630	274	+25	234	3	3
	12 20.605	278	+25	170	3	2
	12 21.599	280	+25	61	1	1
	12 22.697	279	+26	12	2	1
11400	12 13.612	289	+21	16	1	1
	12 14.606	291	+22	40	3	3
	12 15.609	292	+22	331	11	6
	12 16.618	293	+22	617	9	8
	12 17.805	294	+22	723	5	5
	12 18.674	290	+22	528	22	7
	12 19.630	294	+22	702	6	5
	12 20.605	293	+23	473	7	5
	12 21.599	293	+24	492	7	3
11401	12 13.612	272	+34	16	1	1
11402	12 13.612	253	−33	254	2	2
	12 14.606	256	−33	339	2	2
	12 15.609	256	−32	339	2	2
	12 16.618	255	−31	363	2	2
	12 17.805	255	−32	267	1	1
	12 18.674	253	−32	226	17	3
	12 19.630	255	−33	291	1	1
	12 20.605	253	−33	267	1	1
	12 21.599	254	−32	339	6	3
	12 22.697	252	−34	194	8	1
11406	12 18.674	281	−21	60	10	4
	12 20.605	283	−20	56	2	2
11407	12 17.805	197	−20	145	1	1
	12 18.674	197	−22	97	1	1
	12 19.630	200	−21	145	1	1
	12 20.605	201	−23	145	2	2
	12 21.599	199	−21	170	1	1
	12 22.697	199	−22	73	1	1
11408	12 18.674	192	−17	22	3	2
	12 19.630	193	−17	145	2	2
	12 20.605	193	−17	481	8	5

TABLE IIIa NUMBERED GROUP SUMMARY

No.	Date	L	φ	A	s	p
		°	°			
	12 21.599	194	−17	694	10	7
	12 22.697	192	−19	467	11	4
	12 26.717	195	−15	315	3	3
	12 27.597	193	−17	242	2	2
	12 28.600	190	−17	218	1	1
	12 30.677	188	−17	145	1	1
11409	12 20.605	183	+29	16	1	1
11410	12 20.605	172	+23	24	1	1
	12 21.599	171	+24	24	1	1
	12 22.697	172	+22	12	1	1
11411	12 20.605	229	+33	28	2	2
	12 22.697	232	+29	12	1	1
11412	12 20.605	186	+22	16	1	1
	12 21.599	188	+22	62	3	3
	12 22.697	191	+21	40	4	2
11413	12 22.697	152	+35	50	7	3
11414	12 26.717	151	+26	32	1	1
11415	12 26.717	135	+21	145	3	3
	12 27.597	137	+22	60	2	2
	12 28.600	138	+22	52	3	3
	12 30.677	136	+23	179	18	6
	12 31.599	136	+24	242	2	2
	1 1.613	137	+24	121	2	2
11416	12 26.717	90	+22	145	3	1
	12 27.597	91	+24	403	6	5
	12 28.600	92	+23	444	4	4
	12 30.677	90	+25	163	20	6
	12 31.599	90	+25	399	7	5
	1 1.613	91	+25	350	9	6
	1 2.674	90	+25	406	8	6
	1 3.753	90	+25	151	18	8
	1 4.657	93	+25	73	1	1
	1 5.605	93	+25	73	1	1
	1 6.600	92	+26	145	1	1
11417	12 26.717	85	−27	97	2	1
	12 27.597	85	−26	73	1	1
	12 28.600	85	−26	73	1	1
	12 30.677	84	−25	16	1	1
11418	12 27.597	160	+24	61	1	1
	12 28.600	162	+25	97	1	1
	12 30.677	162	+26	12	1	1
11419	12 30.677	99	+21	12	5	2
11420	12 28.600	51	−23	48	1	1
	12 30.677	48	−25	181	22	6
	12 31.599	48	−26	205	4	4
	1 1.613	53	−24	97	2	2
	1 2.674	53	−24	85	2	2
	1 3.753	52	−24	48	4	2
	1 4.657	52	−24	60	3	2
	1 5.605	51	−23	73	1	1
	1 6.600	52	−23	24	1	1
	1 7.728	51	−24	50	7	3
	1 8.635	61	−24	97	1	1
11421	12 30.677	153	+33	6	1	1
11422	12 30.677	87	+18	24	4	2

TABLE IIIb UNNUMBERED GROUP SUMMARY

Date	L	φ	A	s	p
	°	°			
10 14.612	351	−22	12	2	2
11 13.612	319	−29	16	1	1

TABLE IV RECURRENT GROUPS

Group	Recurrence of		Group	Recurrence of	
11218	11212		11358	11331	
11219	11214		11378	11353	
11224	11215		11379	11352	
11226	11218	11212	11380	11354	
11230	11225		11381	11356	
11302	11290		11386	11368	
11304	11291		11407	11378	11353
11322	11307		11417	11387	

Erratum

Circular	Page	Date	Item	Line	For	Read
60	4	May 22, 1955	Number	6	11550	11250

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